

LFPV12160 (12V160Ah)

Specifications

Nominal Voltage		12 V
Capacity (25°C)	120HR(11.1V)	192Ah
	10HR(10.8V)	160Ah
	1HR(9.6V)	89 Ah
Dimension	Length	522±2mm (20.5inch)
	Width	238±2mm (9.37inch)
	Height	218±2mm (8.58inch)
	Total Height	221±2mm (8.70inch)
Approx. Weight		Approx 58kg (128lbs)
Terminal type		T11
Internal resistance (Fully charged, 25°C)		Approx. 4.3m Ω
Capacity affected by temperature (10HR)	40°C	103%
	25°C	100%
	0°C	88%
	-15°C	70%
Self-discharge (25°C)	3 month	Remaining Capacity: 94%
	6 month	Remaining Capacity: 88%
	12 month	Remaining Capacity:75%
Nominal operating temperature		25°C ± 3°C(77°F ± 5°F)
Operating temperature range	Discharge	-15°C ~ 50°C(5°F ~ 122°F)
	Charge	-10°C ~ 50°C(14°F ~ 122°F)
	Storage	-20°C ~ 50°C(-4°F ~ 122°F)
Float charging voltage(25°C)		13.50 to 13.62V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.10 to 14.40V Temperature compensation: -24mV/°C
Maximum charging current		32A
Terminal material		Copper
Maximum discharge current		800A (5 sec.)
Designed floating life(20°C)		20 years

- ◆ Gelled electrolyte technology;
- ◆ Tubular Positive Plate;
- ◆ ABS container.
- ◆ DIN 40742 Standard

Constant Current Discharge Characteristics (A, 25°C)

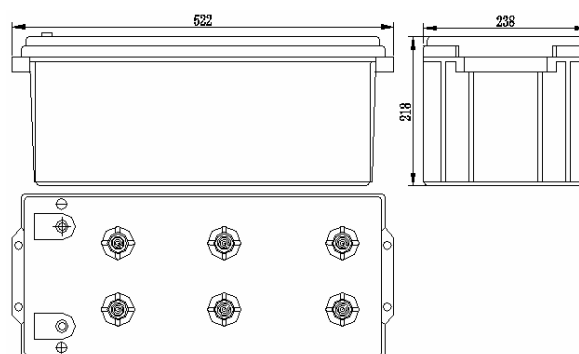
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	72h	120h
1.65V	132	88.1	57.4	40.9	35.4	30.3	25.9	19.5	16.3	8.56	7.81	---	---	---
1.70V	128	85.9	56.9	40.6	35.0	30.1	25.8	19.4	16.2	8.54	7.76	---	---	---
1.75V	124	84.2	56.1	40.1	34.5	30.0	25.6	19.0	16.1	8.49	7.71	3.84	---	---
1.80V	120	81.5	54.6	39.6	34.2	29.1	24.8	18.9	16.0	8.42	7.66	3.84	---	---
1.85V	111	75.8	50.7	37.7	31.8	27.1	23.1	17.7	15.0	7.92	7.26	3.74	2.58	1.60

Constant Power Discharge Characteristics (Watt, 25°C)

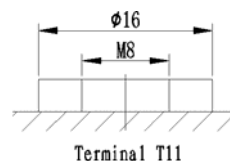
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	72h	120h
1.65V	244	164	110	78.6	68.3	59.1	50.8	38.4	32.2	16.9	15.4	---	---	---
1.70V	238	161	109	78.3	68.0	59.1	50.8	38.3	32.1	16.9	15.4	---	---	---
1.75V	233	159	108	78.2	67.5	58.4	50.7	37.8	31.9	16.8	15.3	7.71	---	---
1.80V	225	155	106	77.6	67.2	57.7	49.1	37.5	31.8	16.6	15.3	7.71	---	---
1.85V	212	146	99.0	74.3	62.9	53.9	46.0	35.2	30.0	15.8	14.5	7.52	5.26	3.30

Note: The above characteristics data can be obtained within three charge/discharge cycles.

Dimensions

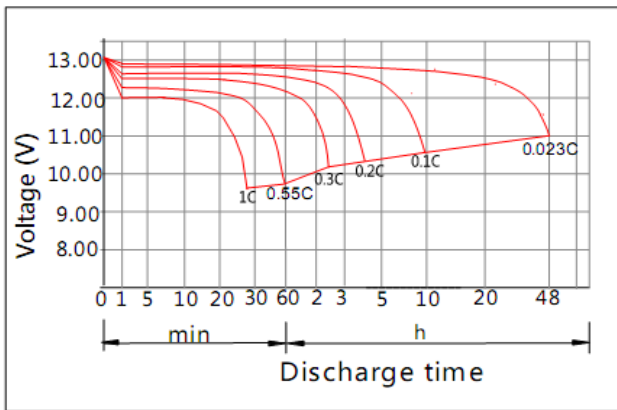


Terminal

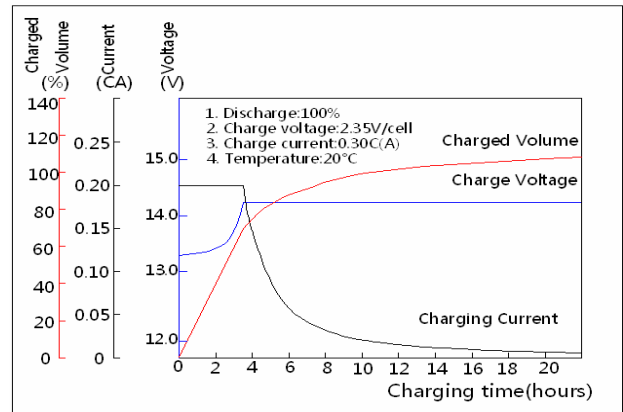


LFPV12160 (12V160Ah)

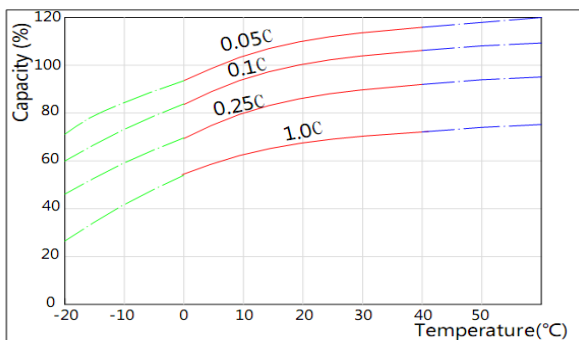
Discharge Characteristics(25°C)



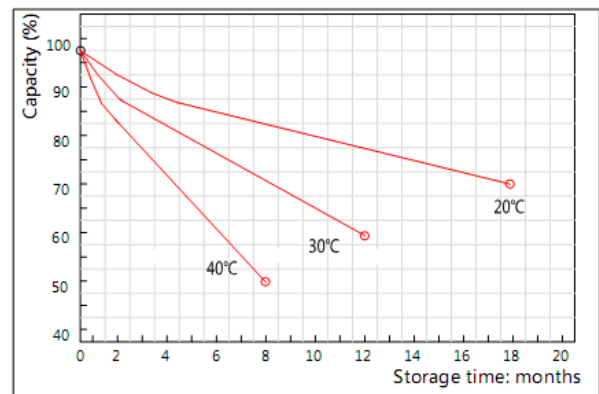
Charging Characteristics(25°C)



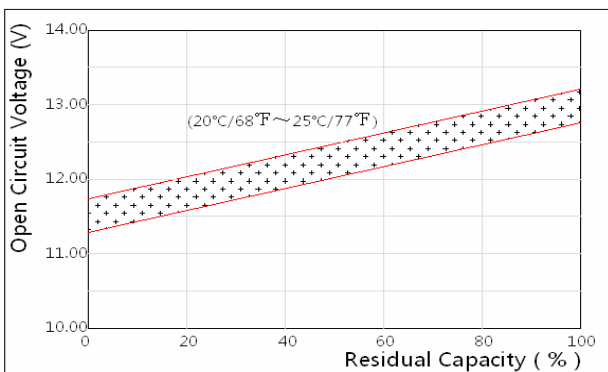
Effect of Temperature on Capacity



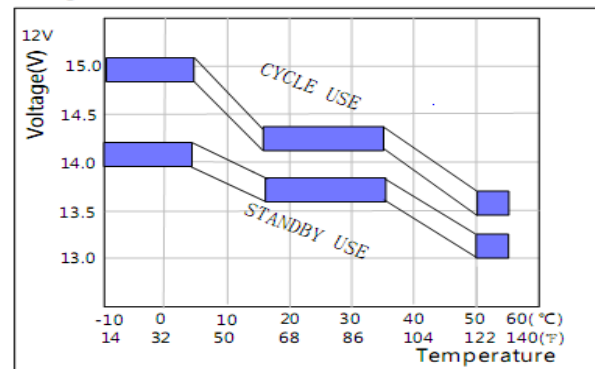
Self-discharge Characteristics



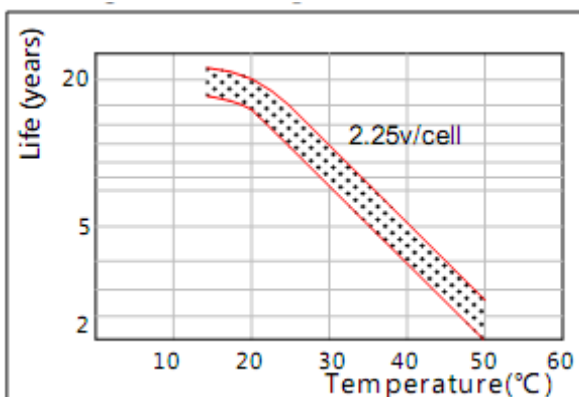
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

